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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR		Y01/1	
	A	TTORNEY DOCKET NO.	
09/593,793 · 06/13/00 · XU	.J	210121.42701	
. [	EXAMINER		
SEED INTELLECTUAL PROPERTY LAW GROUP PLL	TAYLOR, J		
701 FIFTH AVE	ART UNIT	PAPER NUMBER	
SUITE 6300 SEATTLE WA 98104-7092	1655	10	
	DATE MAILED:	07/27/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

		Application No		Applicant(s)	
Office Action Summary		09/593,793		XU ET AL	
	Examiner		Art Unit		
		Janell Taylor C		1655	
The MAILING DATE of the Period for Reply	is communication app	ears on the cove	r sheet with the c	orrespondence address	
A SHORTENED STATUTORY THE MAILING DATE OF THIS  - Extensions of time may be available under after SIX (6) MONTHS from the mailing described in the period for reply specified above is less of the period for reply is specified above, the specified above is less of the period for reply within the set or extended and any reply received by the Office later that earned patent term adjustment. See 37 Commence of the patent services of the	COMMUNICATION.  In the provisions of 37 CFR 1.13 ate of this communication.  Is than thirty (30) days, a reply the maximum statutory period we period for reply will, by statute, three months after the mailing.	6(a). In no event, how within the statutory mill apply and will expire cause the application	ever, may a reply be tim nimum of thirty (30) days SIX (6) MONTHS from	ely filed  will be considered timely.  he mailing date of this communication (35 U.S.C. & 133)	ation.
1) Responsive to communi	cation(s) filed on				
2a) ☐ This action is <b>FINAL</b> .		— · s action is non-f	inal		
3) Since this application is	•			osecution as to the mori	ita ia
closed in accordance wi	th the practice under E	x parte Quayle	1935 C.D. 11, 4	53 O.G. 213.	15 15
Disposition of Claims					
4)⊠ Claim(s) <u>1-60</u> is/are pen	ding in the application.				
4a) Of the above claim(s)	is/are withdraw	n from conside	ation.		
5) Claim(s) is/are allo	wed.				
6) Claim(s) is/are reje	ected.				
7) Claim(s) is/are obj	ected to.				
8)⊠ Claim(s) <u>1-60</u> are subject	to restriction and/or el	lection requirem	ent.		
Application Papers					
9) The specification is object	ed to by the Examiner.				
10)□ The drawing(s) filed on	is/are: a)□ accept	ed or b) object	ed to by the Exam	niner.	
Applicant may not request	that any objection to the	drawing(s) be he	d in abeyance. Se	e 37 CFR 1.85(a).	
11)☐ The proposed drawing cor	rection filed on	is: a)∐ approv	ed b)⊡ disapprov	ed by the Examiner.	
If approved, corrected draw	vings are required in repl	y to this Office ac	tion.		
12) ☐ The oath or declaration is	objected to by the Exa	miner.			•
Priority under 35 U.S.C. §§ 119 ar	nd 120				
13) Acknowledgment is made	of a claim for foreign	priority under 3	5 U.S.C. § 119(a)	-(d) or (f).	
a)□ All b)□ Some * c)□	None of:				
<ol> <li>Certified copies of t</li> </ol>	he priority documents	have been rece	ived.		
2. Certified copies of t	he priority documents	have been rece	ived in Applicatio	n No	
<ul><li>3. Copies of the certification from</li><li>* See the attached detailed 0</li></ul>	the International Bure	eau (PCT Rule	17.2(a)).	d in this National Stage	
14) ☐ Acknowledgment is made o	of a claim for domestic	priority under 3	5 U.S.C. § 119(e)	(to a provisional applica	ation).
a) ☐ The translation of the 15)☐ Acknowledgment is made o	foreign language prov	isional applicati	on has been rece	ived.	,
Attachment(s)		process of the control of the contro	_ 0.0.0. 33 120 6		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawi 3) Information Disclosure Statement(s) (Fig. 1)	ng Review (PTO-948)	4) 5) 6)		PTO-413) Paper No(s) stent Application (PTO-152)	<b>-</b> ·
.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Acti	on Summary		Part of Paper No	 o. 10

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35-U-S.C. 121:
  - I. Claims 1-3, drawn to a polypeptide, classified in class 530, subclass 350.
  - II. Claims 4-10, and 58-60, drawn to polynucleotides and kits thereof, classified in class 435, subclass 6.
  - III. Claims 11 and 54-57, drawn to antibodies and kits thereof, classified in class 424, subclass 130.1.
  - IV. Claims 12-16, drawn to fusion proteins, classified in class 530, subclass402.
  - V. Claims 17, 21, and 23, drawn to pharmaceutical compositions, classified in class 514, subclass 2.
  - VI. Claims 18-20, 22, 25-31, drawn to immunogenic compositions, classified in class 424, subclass 130.1.
  - VII. Claims 32-33 and 34, drawn to methods for removing tumor cells, classified in class 435, subclass 1.1.
  - VIII. Claims 35-37, drawn to methods for stimulating and/or expanding T-cells, classified in class 424, subclass 184.1.
  - IX. Claims 38-39, drawn to method for inhibiting the development of cancer in a patient, classified in class 514, subclass 2.
  - X. Claims 40-43, and 48-50, drawn to methods for determining the presence or absence of cancer in a patient, classified in class 435, subclass 4.

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XI. Claims 44-47, 51-53, drawn to methods for monitoring the progression of cancer in a patient, classified in class 435, subclass 4.

The inventions are distinct, each from the other because of the following reasons:

- 1. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to a nucleic acid and a protein, which have different functions, i.e., the nucleic acid codes for protein and the protein is used for various purposes in the cell, in the instant case as prostate-specific proteins. The nucleic acid is capable of functioning to code for a peptide without the peptide being present, and can be used by the practitioner to create probes, primers, and for diagnostic purposes without the presence of the peptide. Furthermore, the peptide is capable of functioning without the nucleic acid being present in the cell.
- 2. Inventions I, II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to nucleic acids, proteins and antibodies. The antibodies have different functions in the cell than either the protein or the nucleic acid, and are used for immunological purposes.
- 3. Inventions I-III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In

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the instant case the different inventions are drawn to nucleic acids, proteins, antibodies, and pharmaceutical compositions. While the first three are naturally occurring in the cell, pharmaceutical compositions are created for use in ameliorating disease, and therefore has a different effect.

- 4. Inventions I-IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to nucleic acids, proteins, antibodies, pharmaceutical compositions, and fusion proteins. Fusion proteins have different functions and different effects in the cell, and are capable of use without the other products.
- 5. Inventions I-V and VI-XI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the methods of use do not require that the product be present, as they are capable of working with any known polypeptide/polynucleotide/antibody, and the products are capable of use without the methods.
- 6. Inventions X and xI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In

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the instant case the different inventions have different modes of operation, as one monitors the progress of cancer, and one simply detects the presence or absence of cancer.

- 7. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 8. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II-XI, etc, restriction for examination purposes as indicated is proper.

## Sequence Election Requirement Applicable to All Groups

In addition, some of the claims detailed above read on patentably distinct Groups drawn to multiple SEQ ID Numbers. The sequences are patentably distinct because they are unrelated sequences, and a further restriction is applied to the sequences. For an elected Group drawn to amino acid sequences, the Applicants must further elect a single amino acid sequence. For an elected Group drawn to nucleotide sequences, the Applicants are permitted to elect up to 10 nucleic acid sequences (See MPEP 803.04). MPEP 803.04 states:

Nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq. Nevertheless, to further aid the biotechnology industry in protecting its intellectual property without creating an undue burden on the Office, the Commissioner has decided sua sponte to partially waive the requirements of 37 CFR 1.141 et seq. and permit a reasonable number of such nucleotide sequences to be claimed in a single application. See

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Examination of Patent Applications Containing Nucleotide Sequences, 1192 O.G. 68 (November 19, 1996).

It has been determined that normally ten sequences constitute a reasonable number for examination purposes. Accordingly, in most cases, up to ten independent and distinct nucleotide sequences will be examined in a single application without restriction. In addition to the specifically selected sequences, those sequences which are patentably indistinct from the selected sequences will also be examined. Furthermore, nucleotide sequences encoding the same protein are not considered to be independent and distinct inventions and will continue to be examined together.

Although the MPEP deems that up to ten nucleotide sequences may be searched without restriction, it has recently been decided by the Director of Biotechnology at the USPTO that searching more than one sequence per application will place an undue burden upon the Examiner and the Office. For this reason, restriction to ONE SEQUENCE is being applied to all applications at this time.

9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i). Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janell Taylor Cleveland whose telephone number is 703-305-0273. The examiner can normally be reached on M-F 9-6.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones can be reached on 703-308-1152. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-8724 for regular communications and 703-308-8724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Janell Taylor Cleveland Examiner Art Unit 1655

July 24, 2001

CARLA J. MYERS
PRIMARY EXAMINER